



Agricultural
Research
Service

United States
Department of
Agriculture

Official ARS Laboratory Notebook

Notebook No. _____

Name _____

Location _____

CRIS Project No. _____

Title _____

Dates Used: From _____

To _____



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Research
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United States
Department of
Agriculture

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- Use this book as a daily log for your research work plans and results.
- Do not write in the notebook in pencil or other erasable medium.
- Make corrections by crossing through the item and initialing.
- Do not remove any pages from this book.
- Cross-reference instrument printouts when such data is retained in a separate location.
- Date entry and initial each filled page. Periodically have your entries witnessed (signature and date) by another employee, particularly where patentable information or data pertinent to regulatory activities could possibly be entered.
- This book and the information contained therein is the property of the Agricultural Research Service.

ARS
50103
66299
Socks
Atlanta Dept. Store
W. Church St.

353-1897
3013451697

Rodrigues Anton

3

-1 May 1990 = 10000 - 43000 100

3

BD 694-Triniti Collected

BDG 94-4- Cow Chip, San Jose - TINY 234! 24, 2 ♀-vials
85% ♀ ♀ to Abrolhos for DNA Colony saved in bag

BD694-5 - grass - clump & bermitt nest growing around
it - 6 dm ~~above~~ to ~~ground~~ ~~so~~ ~~you~~ ~~see~~ ~~it~~

BDG 94-6 - Dead branch - Munras and termite invasion
exists - masses? \rightarrow No 424 female - white
• \rightarrow Reyes \rightarrow Colombia \rightarrow Argentina

Indonesia — Indonesian — Indonesian

Sunlight.

80694-8

11, 12, 13, 14 - M - West Flanagan, 4 numbers

✓ BDG 94-12: *Dolichomitus labialis* - nest up tree
gr. ground on 6 ft. - concussed, most dead insects
4 mm. - adults - 14 ♀♀ saved - 85% Alcy, 3 slender
♀ saved - many adults

✓ BDG 94-13: *Chrysanthia* sp.
adults - *Trichodes albidus* (Hagen)

✓ BDG 94-14 - *Neuroterus* sp.

✓ M - 14, 16



Matt: Do 9A, First sat.
then 19

Sum. - Do 13
12/11/23
16/17/23
15/16/23

✓ *Termitomyces*

✓ BDG 94-15 - *Clypeodera* sp. - *Termitomyces*
11/15/23 - In 3 m. water - *Termitomyces*

✓ 11/15/23 - In 3 m. water - *Termitomyces*

✓ BDG 94-16: *Termitomyces* sp. - in surface soil
11/16/23

✓ BDG 94-17: *Neuroterus* acutus ^{sp} - *Termitomyces*
11/17/23 - *Termitomyces* acutus - 12 - mm. -
water - *Termitomyces* acutus

✓ *Termitomyces* sp. - *Termitomyces* sp. - in
water - *Termitomyces* sp. - in water - *Termitomyces* sp.

✓ BDG 94-18: *Amphibolus* sp. - *Termitomyces* sp.
water - *Termitomyces* sp. - in water - *Termitomyces* sp.
11/18/23 - *Termitomyces* sp. - in water - *Termitomyces* sp.

✓ BDG 94-19: *Termitomyces* sp. - *Termitomyces* sp.
water - *Termitomyces* sp. - in water - *Termitomyces* sp.

✓ BDG 94-20: *Termitomyces* sp. - *Termitomyces* sp.
water - *Termitomyces* sp. - in water - *Termitomyces* sp.

✓ BDG 94-21: *Termitomyces* sp. - *Termitomyces* sp.
water - *Termitomyces* sp. - in water - *Termitomyces* sp.

✓ BDG 94-22: *Termitomyces* sp. - *Termitomyces* sp.
water - *Termitomyces* sp. - in water - *Termitomyces* sp.

✓ BDG 94-23: Small nest brought in by R. Ant.
TINY! - *Termitomyces* sp. - to name of sp.

At 6000 ft

Comstock
mines
D&H

Marble

BD 694-24 - When I was up there
there were no birds in the air

at 6000 ft

BD 694-25 - you will get a hundred birds
just down the first 1000 ft of the ridge
when you get to the ridge
you will be able to see many birds
at 6000 ft

BD 694-26 - You will get
a hundred birds in the first 1000 ft

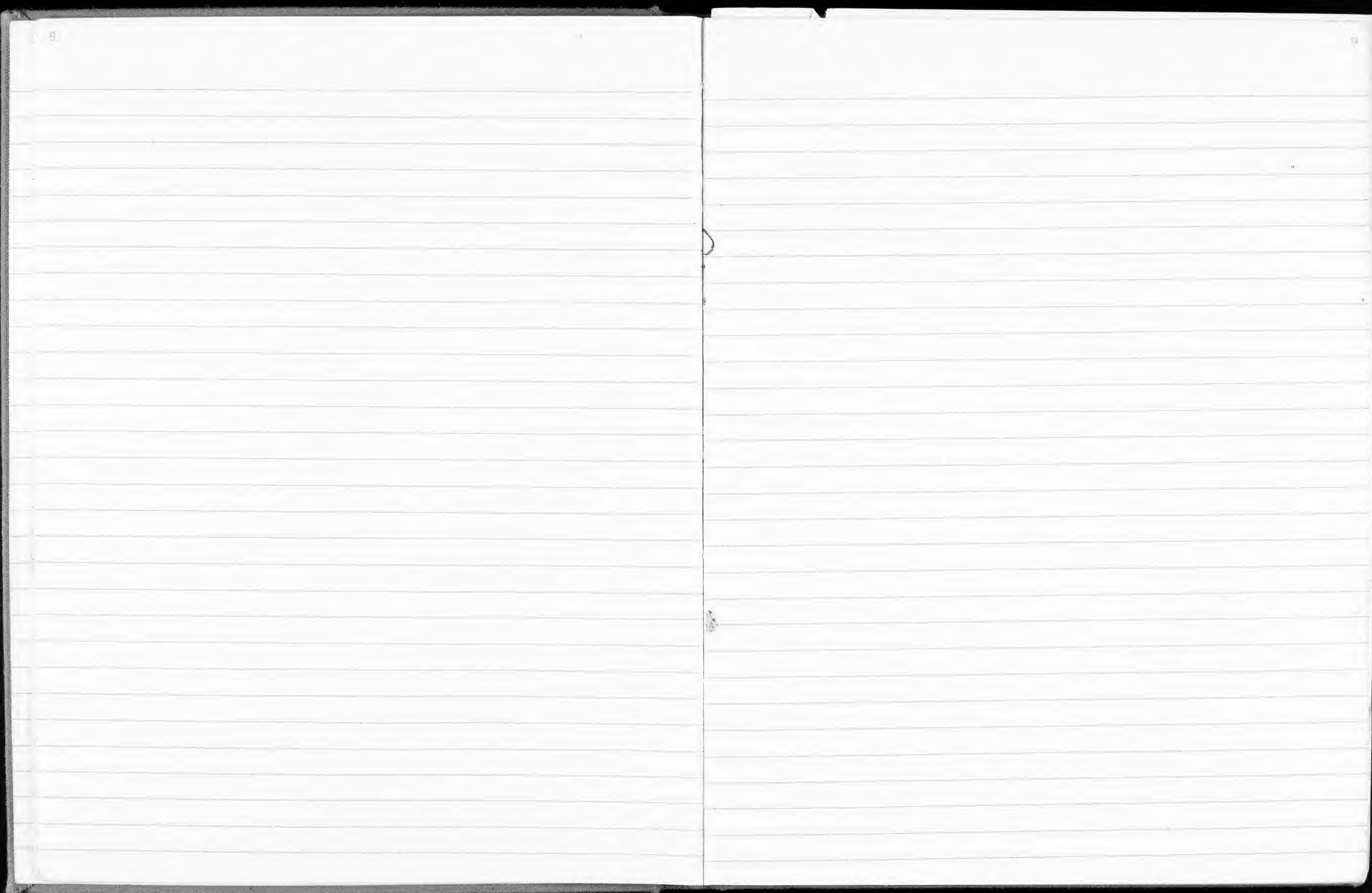
START

BD 694-27 - Before you
get to the ridge you will
see many birds in the first 1000 ft

BD 694-28 - You will get
a hundred birds in the first 1000 ft

BD 694-29 - You will get
a hundred birds in the first 1000 ft

BD 694-30 - This has to be the smallest nest
that ever exploded! From dead branch above
nestbox - Subalpine, high birds out



Once upon a time, there was a boy named Jason

Jason lives in a community in the north Rupunim, about 9 to the village of Surama. His father is a well-known bird trapper, ~~and a skilled~~ ^{wolf-worm} ~~and~~. Like many other residents of the area, he has many skills. Jason's father builds beautiful furniture. His mother, ~~but~~ ^{Madonna} ~~also~~ ^{cooks} ~~cooks~~ well for her family and also looks after the food for the staff and visitors who come to the new field station at Iwokrama. She is one of the great cooks of the country, and makes visitors feel very comfortable.

Jason belongs to ^{a group of the original residents} ~~a people~~ ^{the original residents} ~~group~~ of people of Guyana; ~~they~~ who have lived here for thousands of years.

They have learned ~~much~~ about the plants - trees, ~~trees~~ those that are good for food, those that are good for medicine, and those that can poison or hurt the person who ~~comes~~ ^{touches} them.

The Jasons' people have learned how to use these plants in a way that lets the plants continue to survive - the forests are beautiful, with many kinds of ^{some} ~~trees~~ and low-growing epiphytes. People interested in botany and in medicinal uses of plants come to Guyana to study, and the people of Jason's community are often like this and teach visitors much of value.

Aquiri - ^{sides} ~~Agouti~~

The rivers are full of fish, turtles, armadillo, ~~is~~
all good to eat. The forest also has many
kinds of fruits and other animals like the
Aquiri, the Lattry ~~or~~ the Bush Cow ^{and Tapir}. There
are different names in other countries.

Aquiri is also called Agouti

Lattry is also called Pacca or Tapirinkle

Bush Cow is also called Tapir

Tapir is also called Tapuar

The people use the river for transportation; canoes
and motor boats get people ~~back~~ to where
they wish to go.

The residents of river communities enjoy legal
fruits: ^{including} Coconuts, Bananas, Plantains. Fish
and turtles from the river; and game from
the forest. Gardening provide most
of their crops (ground provision) in
including Cassava for bread and
seasoning and vegetable such as
onions, tomatoes, peppers, and

Selected Colony Sizes

Guyana (Rabarama)

Neotoma (dwarf)
(dwarf/grayish) - dead tree, decaying - 1500T. schwartzii small dead mangrove ~~1200~~ 1200

Cryptotis parvus - 3000 - structure limb

most Adelph. Rabarama

most common - 2000

- juniper - 1800

- tree

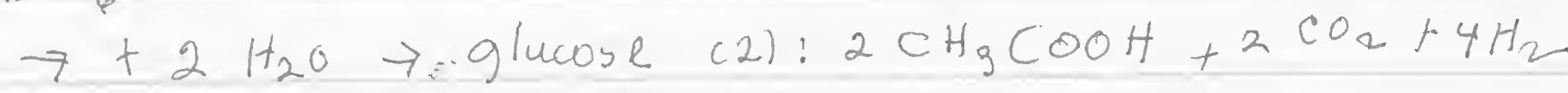
Subfamilies

Heteromys ann. - 0.3 million

Coryphomys formosus - 1.4 - 3.9 million

Mus musculus - 1 million

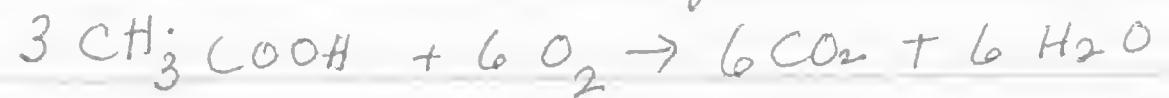
Cellulose: $C_6 H_{12} O_6$



then: CO_2 -reducing Acetogenic bacteria convert H_2 and CO_2 to an additional acetate molecule:



3 net acetates formed per glucose monomer are absorbed from the hindgut and oxidized by the Termite to support up to 100% of the insect's respiratory requirement:



Reduction of CO_2 by methanogenic bacteria will yield H_2 and CH_4 . H_2 and CH_4 are also emitted by Termites, but the amount of emitted methane is small in wood-feeders.

Ranz, Ct4 emitted: microsiae, product from ferrite / he.

wood feeders : 0.00 → 1.30* (most less than 0.30)
(single species)

Grass feeders : 0.18

Fungus growth ; ~~0.25~~ - 0.25 - 0.67

Soil Index : 0.39 - 1.09 most above 0.45

Little Cypress - 1995

Feb. 13, 1995

Name:

Address / FAX #

P = paragraph
l = line

Please call me at 809: ~~for today~~ to confirm receipt and resolve possible questions. Wednesday morning - 10:30 - 12:00 N.

Requested changes:

Page 1 - l³ l.5 - father taught Agriculture; (the Biology year was ~~a~~ emergency fill-in); l₆ - ... to study Biology.

Exp. Note: Genetics ~~was~~ not a separate discipline ^{then} ~~in those days~~

l⁷ --- curriculum, ~~she changed to Arts programs~~, but later, on the advice of a competent new biologist, ~~she~~ reentered the Biology program. He recommended U of Chicago and Ecology as her most rewarding area and [↑] place of ~~study~~ for further study.

P₄, l¹ - she married a fellow Biology major while ~~an~~ an ^{confined to} undergraduate; his call to military service and the dependency allowance allowed her to enter the University of Chicago Zoology department in 1944.

Page 2 - l² - delete "still".

P₁ - l⁸ --- with maintenance of the many term¹s etc.

P₂ - l² delete "for vacant posts" - the faculty members were mainly too old for military service.

l⁴. Delete entire section; substitute: The end of WWII permitted her husband to finish his undergraduate pre-medical education; ~~and~~ he chose Howard University, ~~in Washington~~; she joined him, and secured employment in the Zoology department there. She taught during the regular school year, ~~and~~ returned to Chicago in summers to complete her research for the doctorate.

~~Received~~ Awarded in 1949, in 1950 ~~she~~ qualified ^{for} Assistant Professor; when this was not granted in 1951, she accepted

28 29
a full professorship at Florida A & M in Tallahassee, where she served as teacher, ^{and} department head, ^{and briefly,} ~~and~~ until 1963. ~~She then returned to Howard.~~

She was an active participant in the civil rights movement of the late 50's, and, at one time, with ^{students and the CWS} ~~and the CWS~~ ^{and the} ~~chemistry and the~~ ^{chemistry} ~~department~~ searched a newly-equipped building for a threatened bomb plant.

She returned to Howard, and Washington, D.C. to improve educational opportunities for her children

~~(2 sons stayed to Howard, 1 son of her best - - -)~~

She went to Guyana first in the late 20's, and eventually was given permission to rebuild the field station at Kaibato

Prop 3 1.2 ~~Collins had~~ ^{5th} ~~and~~ amassed a large collection

of Guyanese termites, identified with the aid of Emerson's excellent key and help from his ~~material~~ collection often housed at the American Museum of Natural History. ~~She~~

expressed interest in providing a reference collection for the Biological Diversity Program of Guianas established so effectively by Dr. Vicki Funk - and her interests fitted well with the important discipline of microbial ^{genomics} identification by the molecular Systematics / Microbiology disciplines represented by Dr. Kane -

Prop 4 - 2.6 - suitable "material" for "specimens"; or don't want the Fish & Wildlife Service on our necks.

Introduction

History of Feminist Studies on the Cognac Islands

History of Termitite Studies in the Cayman Islands

The first formal ^{expedition} ~~attempt~~ - collections of termitite on the Cayman Islands was the Oxford University Cayman Island Geological expedition in 1938. ~~Directed~~ M. C. Bernard Lewis, of the Entomology Department at The University Museum, was responsible for the work and he sent these specimens to Dr. Alfred E. Gmelin, the University of Chicago, for identification. Gmelin's paper, dated Jan. 23, 1940, is in the collection of the Cayman Islands, Gmelin

32
? just list the Termites Emerson
determined the fauna to include ⁸ species, as follows:
Halotermitidae:

Incisitermes trituberculatus Snyder ^{1/2} cast of damage to a
large termite found in driftwood and in dead trees
in moist areas, especially mangroves; common in Red
Bay area before draining operations; first described
from Panama, found ~~also~~ in Honduras, Belize and many
Caribbean Islands

2 sp. undetermined species of Incisitermes; ~~not to~~
~~confuse~~ - Emerson held these for further study
and association with the proper soldier.

Neotermes angustoculus Snyder ^{now} Neotermes
capitatus ~~permeante~~, a larger Halotermitid
~~restricted to~~ ^{or in} dead branches of live tree and ^{Snyder}
~~penetrating the~~ ^{very} damp dead wood; ~~not~~ found attacking
~~orange trees~~ and Pecan trees, and common in
the roots of Oleander. This termite attacks young
teak trees in Cuba, and damage fruit and
nut trees in south Florida. This species has been
recorded for Barbados, Cuba, Dominica, Hispaniola,
Jamaica, Manaus, Puerto Rico, Trinidat and Taba
and Caicos. No structural damage recorded, but
considerable agricultural damage.

An undetermined species of Cryptotermes, alates taken at
light trap (Little Cayman)

A new species of Cryptotermes alate to be full until
soldier has been located (Little Cayman)

Termitidae

Nasutitermes pilifrons (Holmgren) - now Nasutitermes

nigriceps (Waldemar) - a termite with soldiers
having heads prolonged to a hollow "mace"; through whose
Microcerotermes albocervus Emerson, taken on 1/20
(6/67) Grand Cayman and Cayman Brac

This material ~~was~~ is now in England (part); the
specimens Emerson retained for study are ~~now~~
in the American Museum of Natural History collection
with the rest of Emerson's material; ~~now~~ they are
now on loan to us for completing the termite
survey.

Museum - go along front going North
Before George Town

949-7820
m. George St.
Church St. GT
Coll. No. 10
West Bay

museum - go along front going North
Before Beegee River

949-7820

n. Beegee River

Church St. GT

90

~~West Bay~~

Call in
Dyer

32
? Just list the Termites ^{Emerson}
determined the fauna to include ⁸ species, as follows:
not yet
not yet

Halotermitidae:

Incisitermes trinotatus Grayson ^{Local of damage to a}
^{tree in Honduras}

a large termite found in different and in dead trees
in moist areas, especially mangroves; common in Red
Bay area before draining operations; first described
from Panama. Found ~~also~~ in Honduras, Belize and many
Caribbean Islands

2 sp. undetermined species of Incisitermes; ~~not yet~~
~~collected~~ - Emerson held these for further study
and association with the proper soldier.

Neoterpes angustoculus Snyder ^{Copy} Neoterpes

castaneus Seumeister, a larger Halotermitid

~~nesting~~ ^{nesting} ~~sent to~~ ^{sent to} dead branches of live tree and ^{Snyder}
~~penetrating tree~~ ^{or in} ~~very~~ damp dead wood; ~~now~~ found attacking ^{Snyder}
~~Aniseado tree~~ and Pecan tree, and common in
the roots of Oleander. This termite attacks young
teak trees in Cuba, and damage fruit and
nut trees in south Florida. This species has been
recorded from Barbados, Cuba, Dominica, Hispaniola,
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An undetermined species of Cryptotermes, alates taken at
light trap (Little Cayman)

A new species of Cryptotermes alate to be full until
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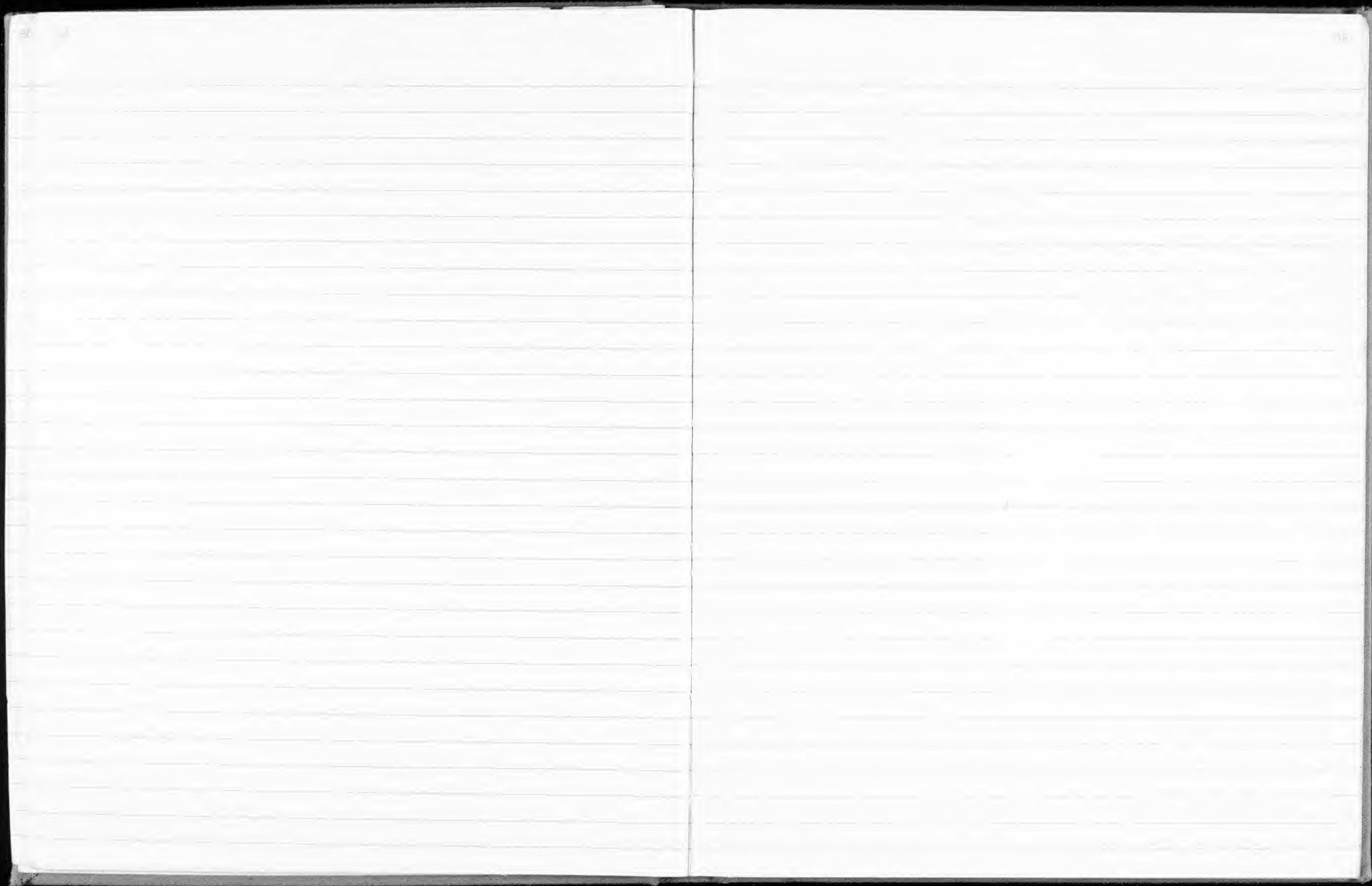
Termitidae

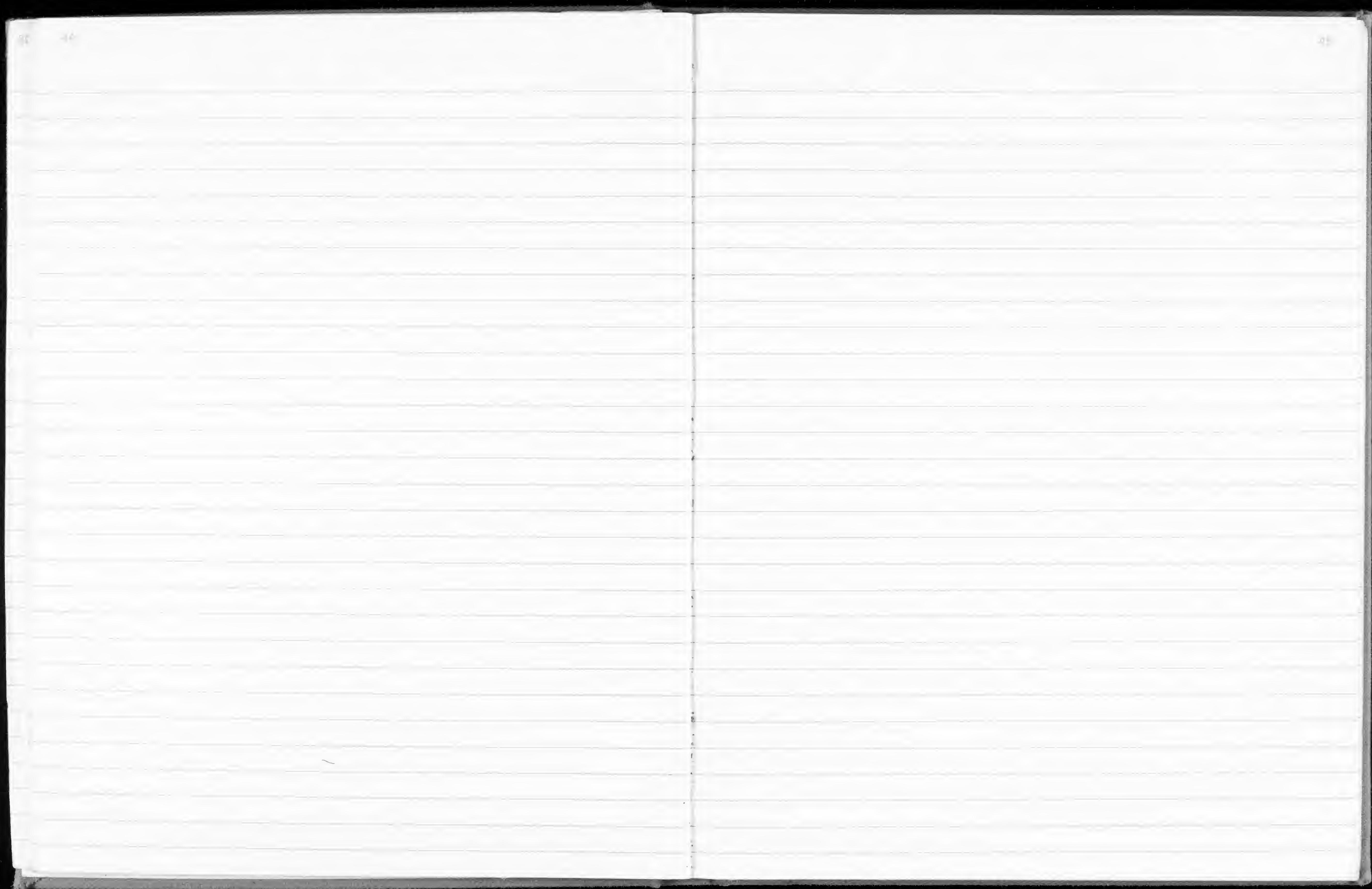
Nasutitermes pilifrons (Holmgren) - now Nasutitermes

nigriceps (Haldeman) - a termite with soldiers
having legs prolonged to a hollow "masu", through which

Microcerotermes aciculus Emerson, taken on 19th
(1957) Grand Cayman and Cayman Islands

This material ~~is~~ is now in England (part); the
specimens Emerson retained for study are ~~now~~ ^{now}
in the American Museum of Natural History collection
with the rest of Emerson's materials; ~~now~~ they are
now on loan to us for completing the termite
survey.





Little Cayman Brains

vit A, Beta-Carotene

AlF₃ for tablets

EPO - Premium Oil

~~vitamin C caps~~

folie acid

B6

B100

Taurine

pantothenic acid 05

54 Ginkgold

call shiRb machen

Cook Book for Gladys

paper work

Thiamine

85%

absolute alcohol

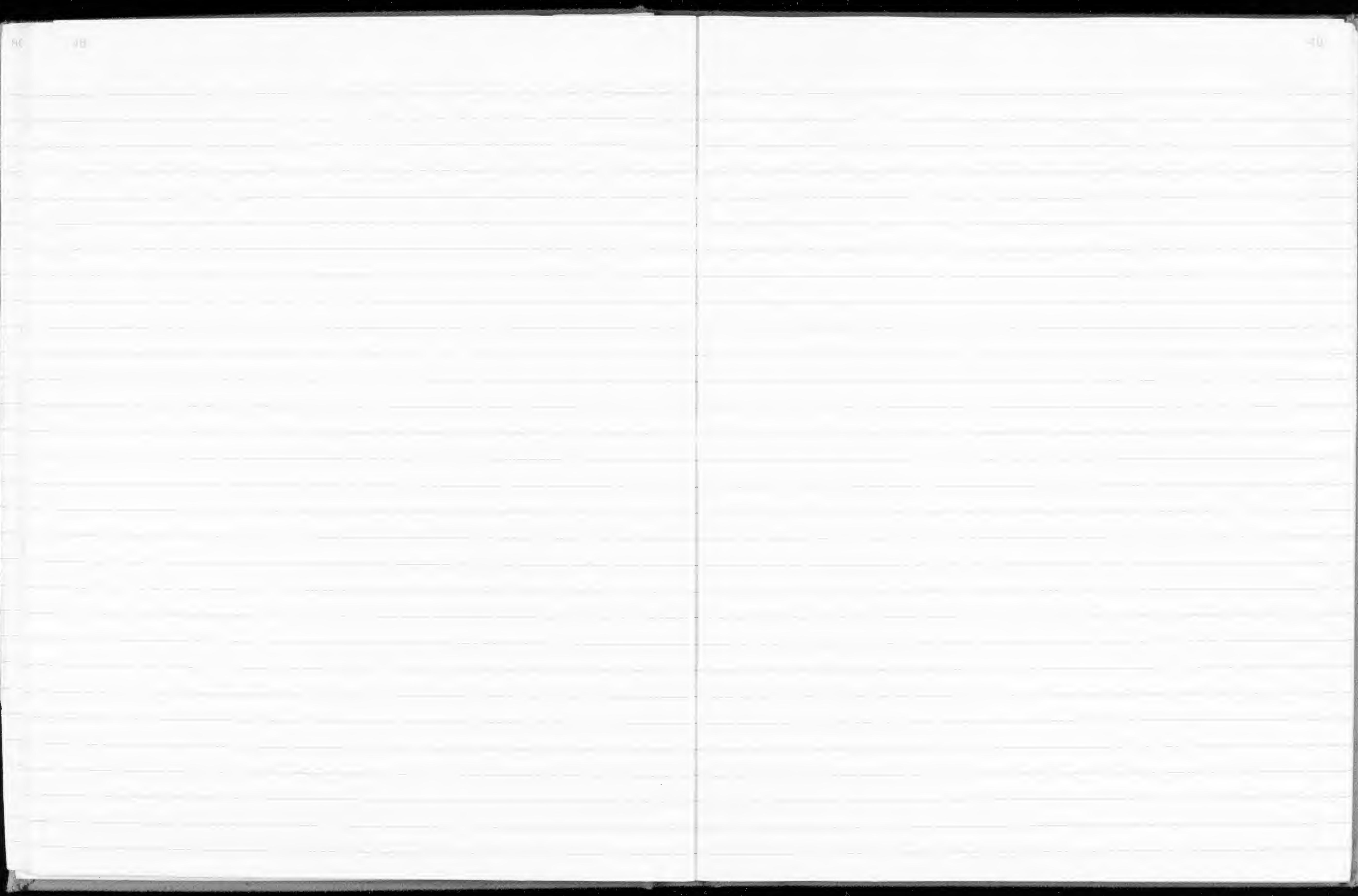
rock Hanging size

Ivory soap

clear channels

ET 27

100% 6078



Rich & Sarita Turman
525 Macon Dr.
Bismarck, ND 58504

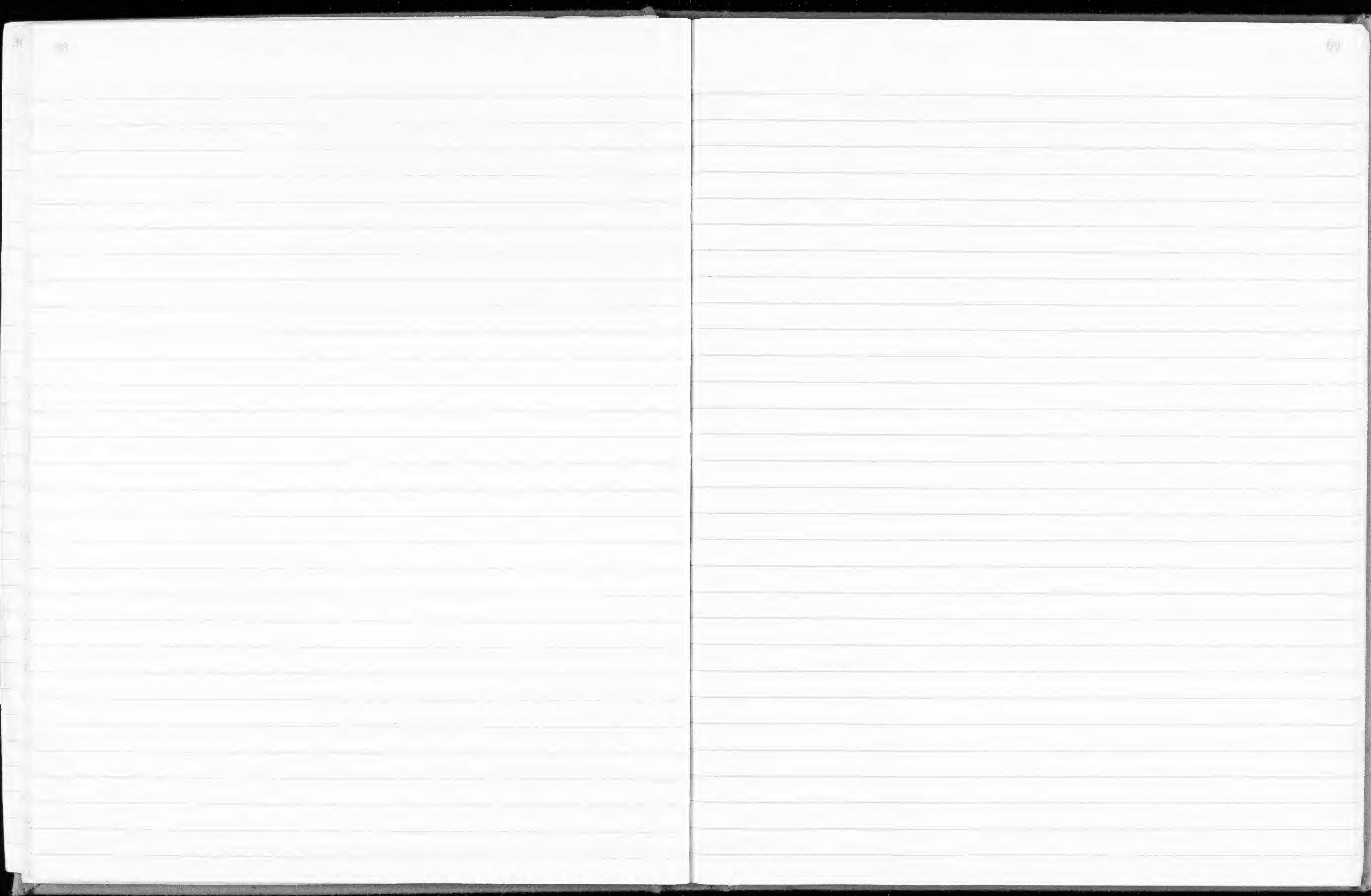
701-258-0092

Rich & Sarita Turman

525 Macon Dr.

Bismarck, ND 58504

701-258-0092



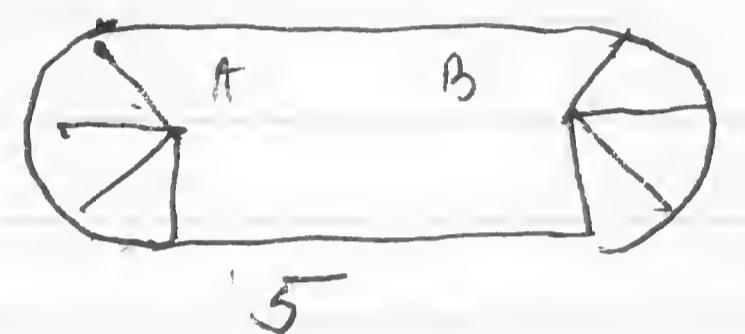
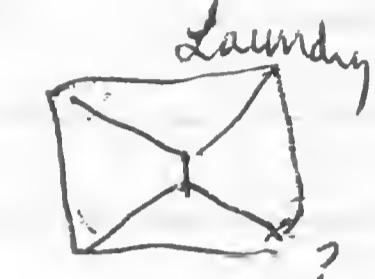
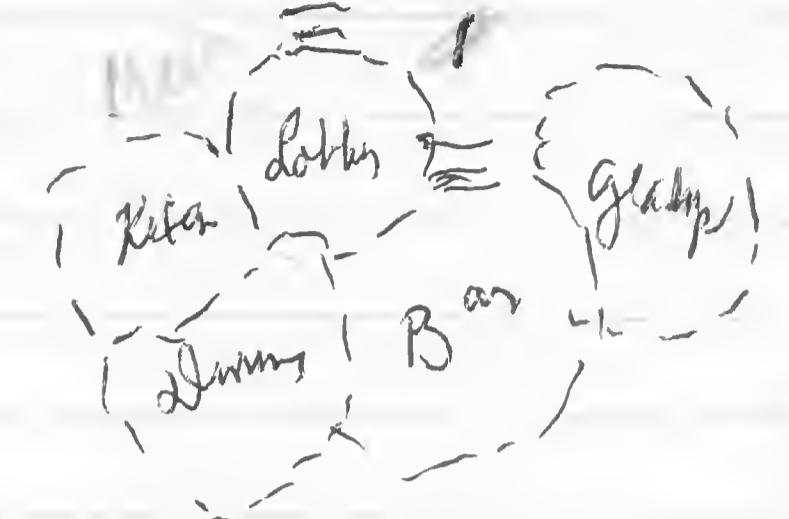
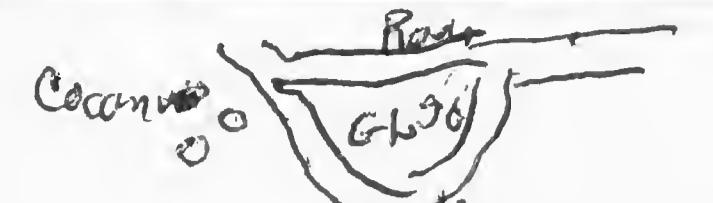
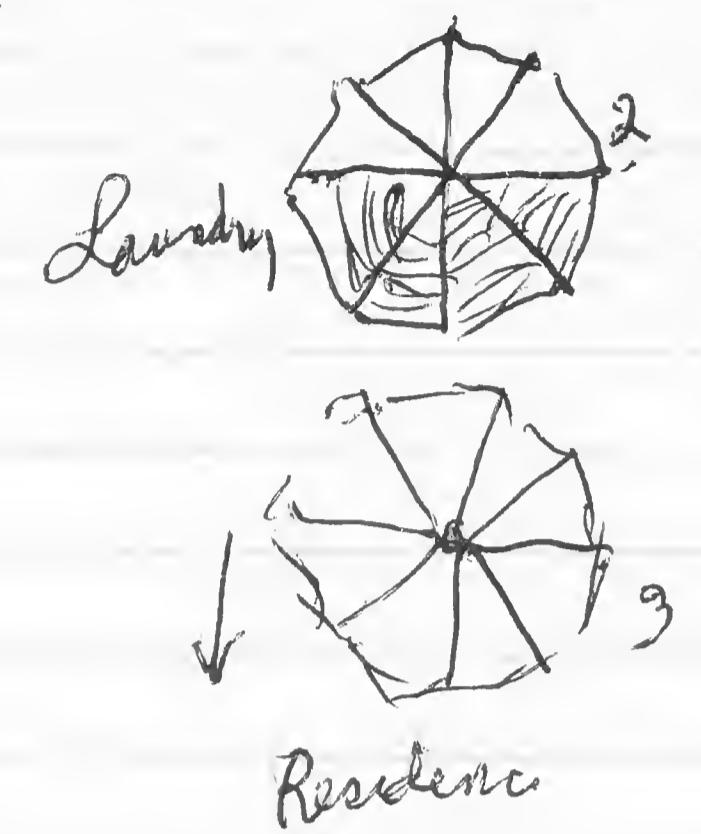


10000

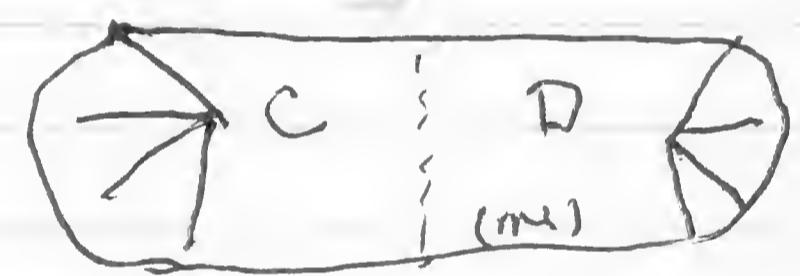
Kate



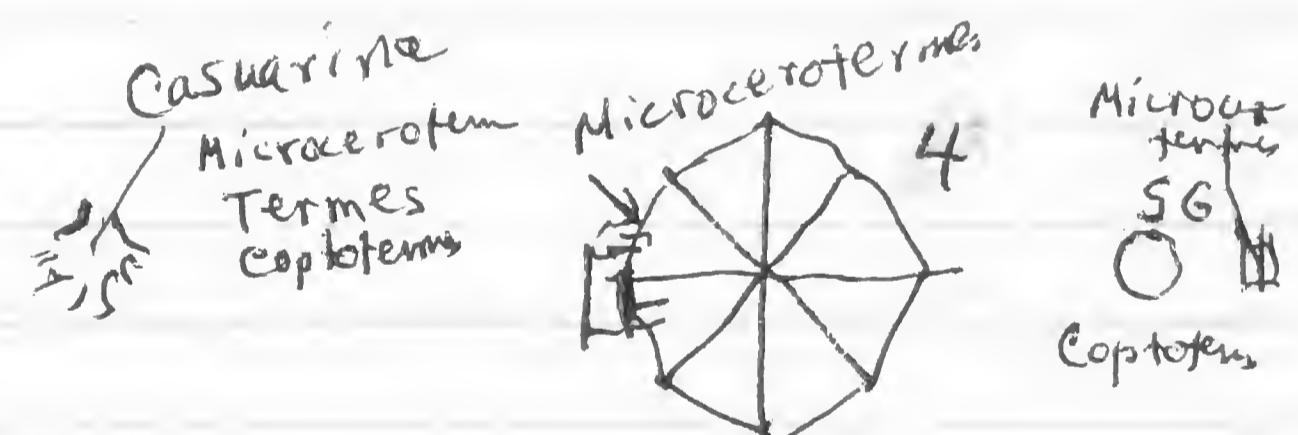
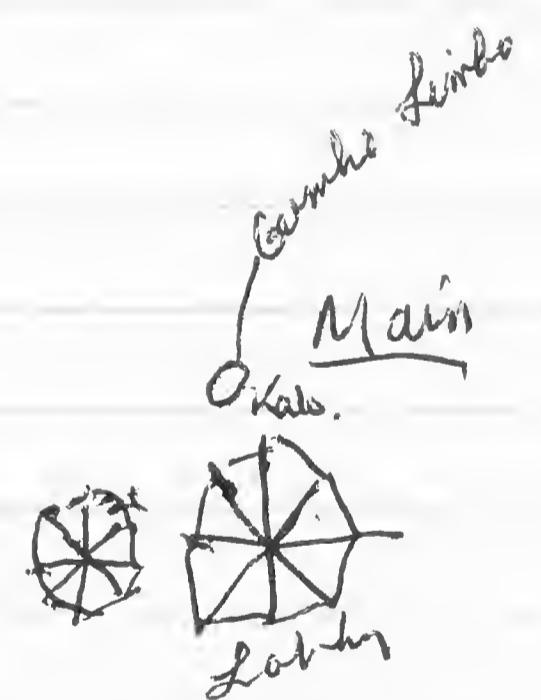
1. Main Building

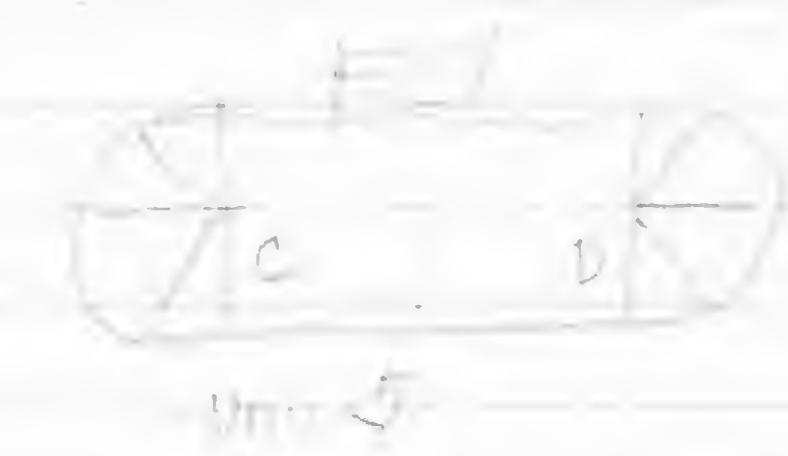


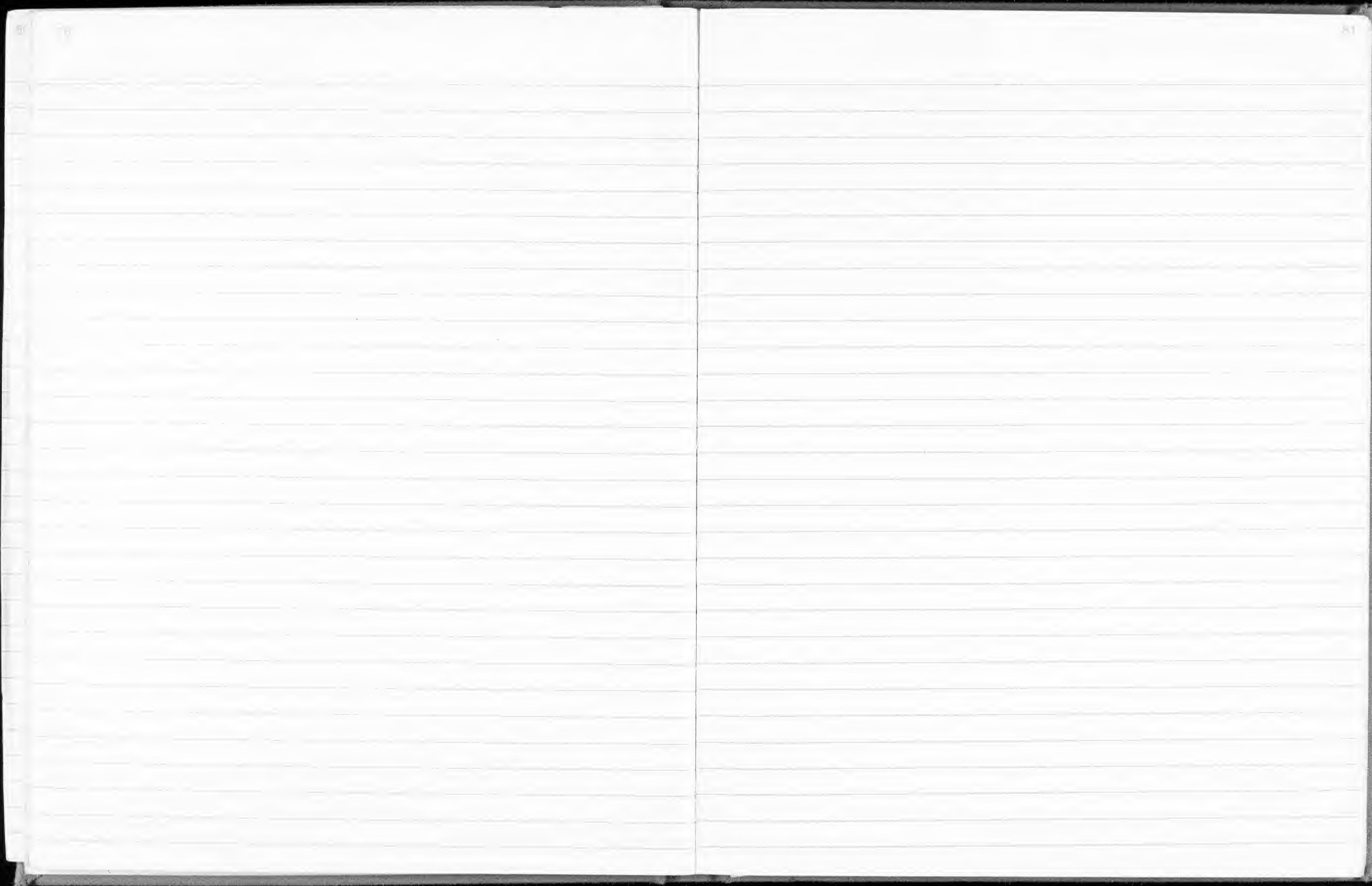
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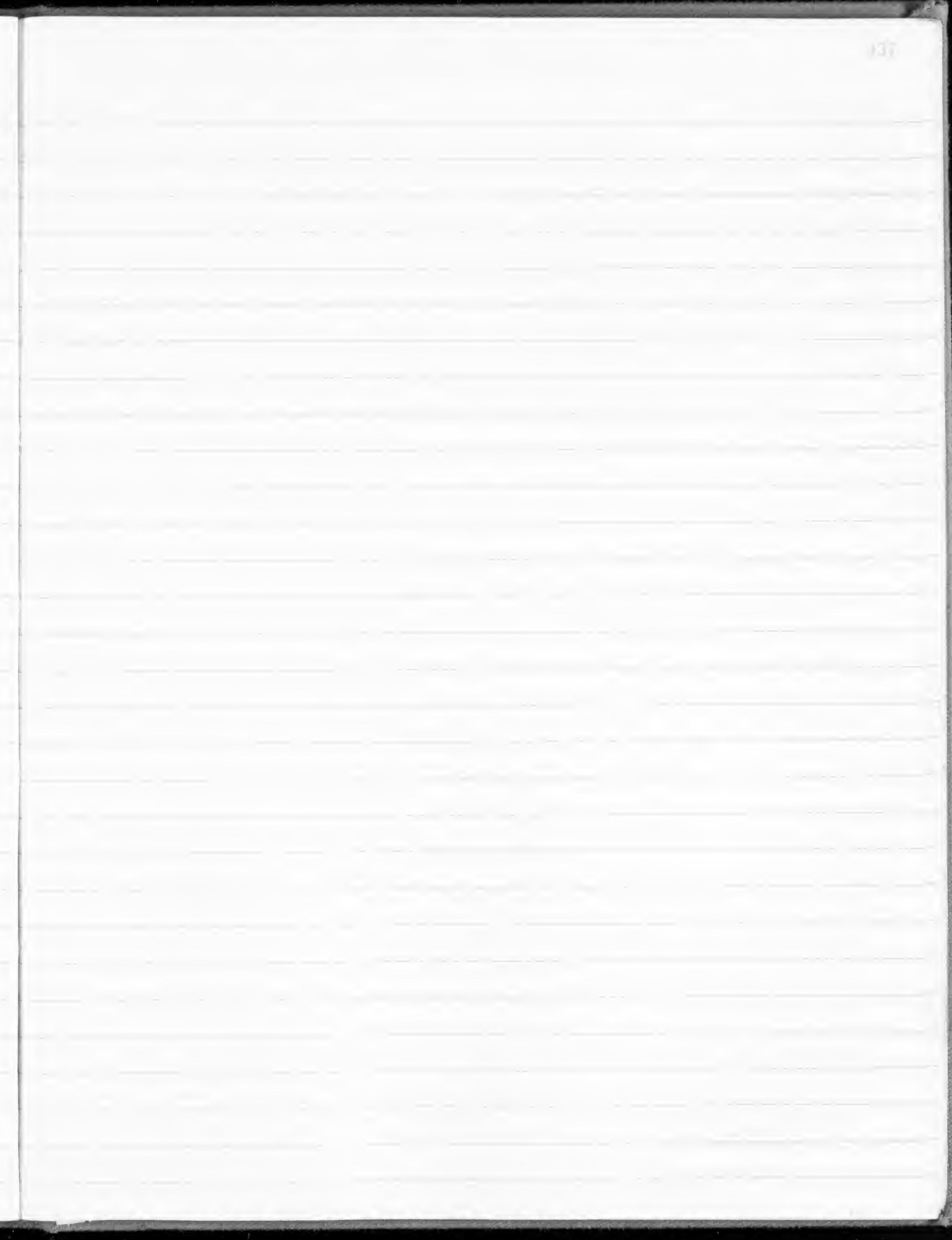


6.







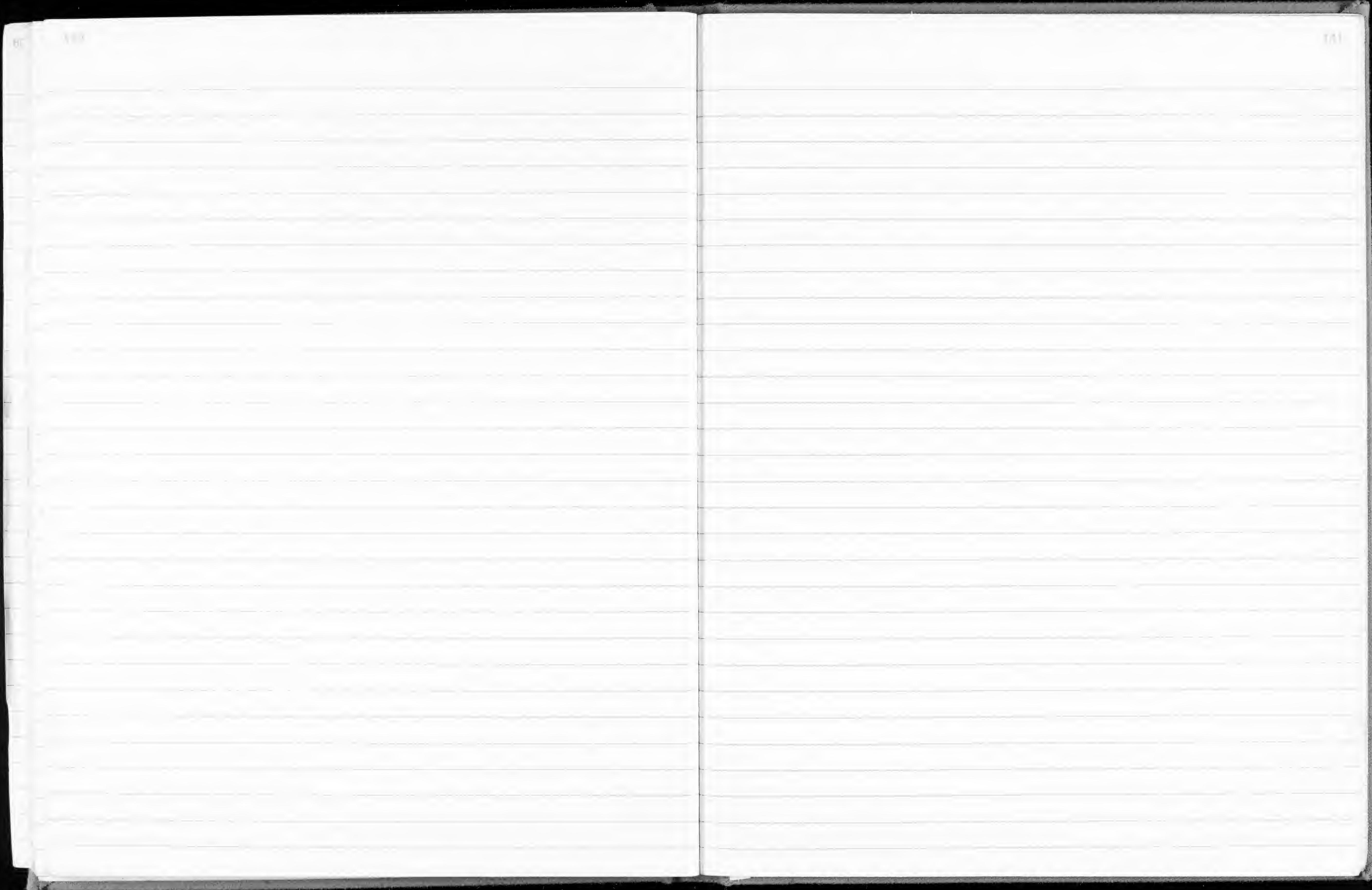


Dr. Nan-Yao Su

Umin, Feb. ~~Post~~ at H. Lunderdal

305: 475-4125

Living alone at
E. hauilands abundant in drift weed at or just
above normal high tide line, and ~~in~~ ⁱⁿ ~~between~~
~~between~~ on depositing shore, along with
debris from Jamaica. Nymphs with long wavy
paws present. ~~will~~ will check Cognac Bnd.
Please inform for that all is well with me:
H. F. Collins 301: 868-5362



184

2. *C. cuprinus*
3. *C. cuprinus*

- 1) Conchariforme espécie nova: Bolivia, Potosí
C. cuprinus f. *virginicus*
- 2) *C. cuprinus*: prov. Brasil, Pará
sugest. L. M. L.

3) *C. cuprinus* - nova

4) *C. cuprinus* f. *virginicus*
F. vir.

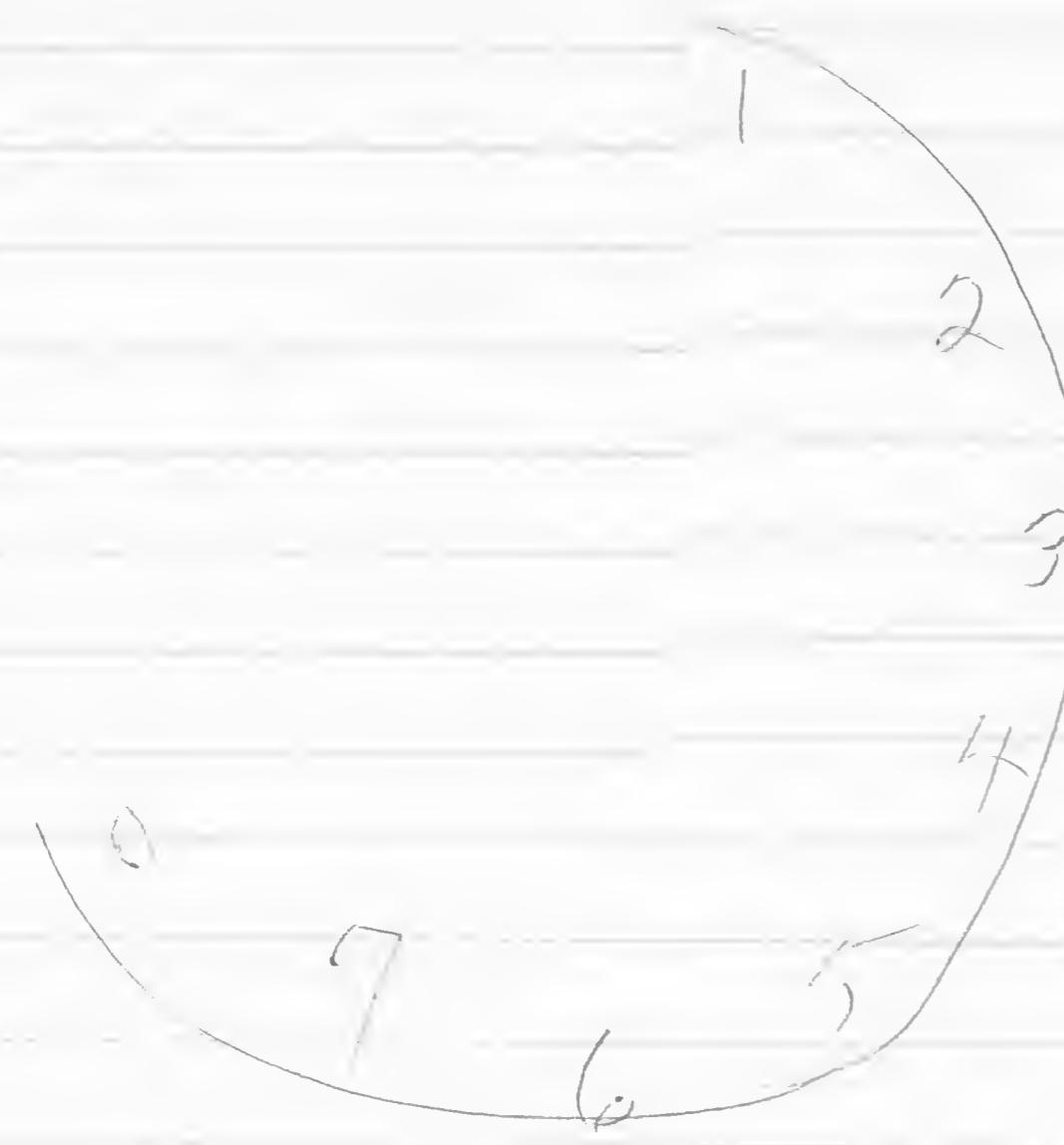
Here we make a long road down.

After Malan Tibbie Alian
Each Kewell's
people

Upper Potomac, they are
surprised

Margaret
S. Coll

Margaret S. Collins
164 1/2 Broadway



System lost communication to
715, Saturday, Oct. 17th at
11.50 am.

Median
station
Copper

18

System A.
7/5, Sat.
11:50 AM

Ashton EBank
West Bay
P.O. Box 218
Grand Cayman
Cayman Islands
B.W.I.
809 949 3532

Dive
Herbal medicine
practitioners
Grand Cayman

